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ABSTRACT

This document presents a summary of the characteristics (age, previous participation, geographic distribution, major educational assignment, subject matter responsibility, level of assignment, and name of school where employed) of applicants and participants in National Science Foundation (NSF) funded institutes and research participation projects for science, mathematics, and engineering teachers throughout the United States during the summer of 1962 and the 1962-63 school year. (SI)

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Summary

of the

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APPLICANT RECORD CARDS

submitted to the

SUMMER 1962

and

SCHOOL YEAR 1962-63

NATIONAL SCIENCE FOUNDATION

INSTITUTES, CONFERENCES

and

RESEARCH PARTICIPATION PROGRAMS

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NATIONAL SCIENCE FOUNDATION

WASHINGTON, D. C.

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Prepared for the National Science Foundation

by

Ernest E. Blanche & Associates, Inc.
Kensington, Maryland

Under Contract NSF-C 273

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FOREWORD

The National Science Foundation Institute programs are designed to make it possible for in-service teachers in elementary schools, secondary schools, and colleges to obtain additional instruction and become acquainted with new developments in science and mathematics.

Among Foundation-supported training programs for teachers, the following major types are included in this summary:

1. Summer Institutes, which offer an average of seven weeks of intensifed study to college, high school and elementary school teachers;
2. Summer Conferences, which are short-term programs for college teachers;
3. Academic Year Institutes, which are conducted through the entire academic year, offering full-time study for college and high school teachers;
4. In-Service Institutes for high school teachers of science and mathematics, and for elementary school supervisors and teachers;
5. Research Participation Programs, which offer teachers in small colleges and secondary schools a summer program of laboratory research work.

(These are included in the general term "Institutes" in this report.)

The Foundation provides support for Institutes on the basis of proposals submitted by colleges and universities outlining the work that will be offered. Foundation funds may be used to pay the principal management and instructional costs, and provide stipends and travel and dependency allowances for teacher participants, except in the case of In-Service Institutes. The latter do not provide stipends or dependency allowances. Institutions receiving grants are responsible for the administration of the Institute programs, including selection of faculty and teacher-participants, payment of stipends, planning and conducting of courses, seminars, and activities.

NATIONAL SCIENCE FOUNDATION
1962 SUMMER INSTITUTES APPLICANT RECORD CARD
(SEE REVERSE FOR INSTRUCTIONS)

1. APPLICATION MADE TO: Penn State University (NAME OF INSTITUTION)
2. NAME OF DIRECTOR: Dr. Paul Garroway
3. YOUR COMPLETE NAME: Dana (LAST) Andrea (FIRST) B. (MID. INITIAL)
4. SOCIAL SECURITY NO. 410-36-5253
5. DATE OF BIRTH: 1 (MO.) - 24 (DAY) - 22 (YEAR)
6. HOME ADDRESS: 210 S 12th Street (STREET)
Yellow Springs (CITY) (ZONE) Ohio (STATE)
7. MAJOR LEVEL OF ASSIGNMENT:
COLLEGE ☑ JUNIOR COLLEGE ☐
SECONDARY: GRADES 7-8 OR 7-9 ☐ GRADES 9-12 OR 10-12 ☐
ELEMENTARY (1-6) ☐ OTHER _____ ☐
8. MAJOR ASSIGNMENT: CHECK ONE
TEACHING ☑ RESEARCH ☐
SUPERVISION ☐
ADMINISTRATION ☐
OTHER _____ ☐
9. SUBJECT MATTER RESPONSIBILITIES THIS TERM:
BIOLOGY ☐ GENERAL SCIENCE ☐
CHEMISTRY ☐ MATHEMATICS ☐
EARTH SCIENCES ☐ PHYSICS ☑
ENGINEERING ☐ OTHER _____ ☐
10. PREVIOUS ATTENDANCE AT NSF TEACHER TRAINING PROGRAMS:

NAME OF INSTITUTION	PROGRAM	YEAR	SUPPORT		
			FULL	PART	NONE
Cornell	AYI	'59'60	✓		
M.I.T.	SI	'60		✓	

11. FOR COLLEGE, JUNIOR COLLEGE, AND TECHNICAL INSTITUTE PERSONNEL ONLY. NAME OF INSTITUTION WHERE EMPLOYED:
Antioch College

DO NOT WRITE IN SPACE BELOW — For Director's use only

(1) (2) (3)

DM D34381

NATIONAL SCIENCE FOUNDATION
DIVISION OF SCIENTIFIC PERSONNEL AND EDUCATION

INSTRUCTIONS TO THE APPLICANT

THIS CARD MUST ACCOMPANY EVERY APPLICATION SUBMITTED TO A 1962 TEACHER-TRAINING PROGRAM SPONSORED BY THE NATIONAL SCIENCE FOUNDATION. PLEASE PRINT. DO NOT FOLD, SPINDLE OR MUTILATE.

DIRECTIONS FOR COMPLETING ITEMS 9 AND 10.

9. SUBJECT MATTER RESPONSIBILITY - MARK THE BOX BY EACH SUBJECT IN WHICH YOU HAVE A SPECIFIC RESPONSIBILITY UNDER YOUR MAJOR ASSIGNMENT.

10. BEGINNING WITH MOST RECENT PROGRAM ATTENDED FURNISH THE FOLLOWING INFORMATION:
NAME OF INSTITUTION - PRINT NAME OF INSTITUTION AT WHICH YOU PARTICIPATED IN AN NSF-SUPPORTED TEACHER-TRAINING PROGRAM.
PROGRAM - INSERT THE APPROPRIATE ABBREVIATION (LISTED BELOW) TO INDICATE TYPE OF PROGRAM ATTENDED AT THAT INSTITUTION:

AYI - ACADEMIC YEAR INSTITUTE FOR TEACHERS OF MATHEMATICS OR SCIENCE
ISI - IN SERVICE INSTITUTE FOR TEACHERS OF MATHEMATICS OR SCIENCE
RPTT - RESEARCH PARTICIPATION FOR TEACHER TRAINING
FEL - SCIENCE FACULTY AND OTHER FELLOWSHIP PROGRAMS
SFSST - SUMMER FELLOWSHIP FOR SECONDARY SCHOOL TEACHERS
CONF - SUMMER CONFERENCE FOR COLLEGE TEACHERS
SI - SUMMER INSTITUTE FOR TEACHERS OF MATHEMATICS OR SCIENCE

YEAR - INDICATE THE CALENDAR YEAR DURING WHICH YOUR ATTENDANCE AT THAT PROGRAM BEGAN.
SUPPORT - CHECK TO INDICATE WHETHER YOU PARTICIPATED UNDER FULL SUPPORT, PARTIAL SUPPORT, OR NO SUPPORT FROM NSF FUNDS DURING YOUR ATTENDANCE AT THAT PROGRAM.

THIS APPLICATION RECORD MUST BE SENT WITH YOUR APPLICATION FORM TO THE PROGRAM DIRECTOR. HE WILL FORWARD IT TO THE FOUNDATION.

DM D34381 NSF FORM 9C-25 B, NOV. 1961 BUDGET BUREAU NO. 99-R080.3, APPROVAL EXPIRES DEC. 31, 1963

Item	Card Columns
Institution Number	1 - 5
	6 - blank
First Name Initial; Middle Initial	7 - 8
Last Name	9 - 20
Social Security Number	21 - 29
Date of Birth	30 - 35
Street Address	36 - 49
City	50 - 59
State	60 - 64
Major Assignment	65
Subject Matter Responsibilities	66
Academic Level of Major Assignment	70
Previous Attendance at NSF-Sponsored Programs	71
Stipends for Participants	72
Program Code	78 - 79
Year of Program	80

An Institute may offer work in a single field (i.e., biology) or in several areas (i.e., chemistry, physics, and mathematics). Graduate credit is frequently available to those who complete the work successfully; a sequence of summer programs, or an Academic Year Institute, can lead to a Master's degree. Institutes are characterized by offering subject-matter courses especially designed for the teachers who attend and by being organized to give ample opportunity for informal contacts outside the classroom among the participants and staff.

Directors of the respective Institutes and Programs submitted Applicant Record Cards to the National Science Foundation on standard NSF forms, with data entered by the applicant and checked as required. Although some applicants neglected to enter all the information or to check all boxes as required, the number of all such errors and omissions was relatively small (less than one percent).

The Applicant Record Cards (same size as IBM cards) were alike for each program, except for color of printing and specific program identification.

The standard code for each Institution and Institute was punched into the Applicant Record Cards.

Data from all cards submitted were converted to IBM punch cards in the format as indicated for processing on IBM equipment.

A second set of cards was punched for all participants, indicating at what college, university, high school,or other institution the person was employed. This name and its city-state location was punched into the columns set aside for address (columns 36-64). All other columns were the same as in the card indicating address of residence.

The processing of these cards to produce the respective tables usually required the sorting of cards by the specific item or code to put the cards in proper sequence and then summarizing on the IBM 407 tabulator or the IBM 1401 computer.

Tables involving separation by year of birth and computation of averages and percentages were produced on the 1401 computer.

Directors forwarded a total of 241,365 applications to the Foundation from 90,270 applicants, of whom 40,361 became participants in the Institutes programs. This report summarizes the characteristics and distribution of the applications, applicants, and participants in the institutes and research participation programs funded by the National Science Foundation for special advanced training of science, mathematics, and engineering teachers throughout the United States.

Section I

Size and Scope of Institutes Programs

During the summer of 1962 and school year of 1962-63 the National Science Foundation supported 1,019 Institute programs. Of these, 502 were Summer Institutes, 35 were Summer Conferences, 55 were Academic Year Institutes, 316 were In-Service Institutes, and 111 were Research Participation Programs. Table 1 below shows the number of applications, applicants, and participants in the five major programs.

Table 1. NUMBER OR APPLICATIONS, APPLICANTS, AND PARTICIPANTS IN FIVE MAJOR NSF PROGRAMS DURING 1962-63

Program	Applications	Applicants	Participants
Summer Institutes	204,482	66,414	23,069
Summer Conferences	1,036	928	849
Academic Year Institutes	16,562	6,423	1,762
In-Service Institutes	17,247	14,764	13,911
Research Participation Programs	1,938	1,741	770
TOTAL	241,265	90,270	40,361

Institute directors received over 241,000 applications from more than 90,000 applicants, of whom slightly more than 40,000 were selected for participation. The directors of Summer Institutes received 204,000 applications, about 85 percent of the total submitted.

A total of 40,361 persons participated in the 1962-63 programs, indicating an average of 2.67 applications per person for all programs combined.

Three-fourths of the programs were established for secondary school teachers, approximately eight percent were planned for college teachers, approximately eight percent were planned for elementary school teachers, and the remainder were planned for combined levels. Since programs of various types were established for several teaching levels, data are presented for eleven different program types.

Table 2 summarizes numerical data of the eleven major program types arranged by teaching level of the program.

Table 2. SUMMARY OF APPLICANT AND PARTICIPANT DATA BY ACADEMIC LEVEL AND PROGRAM TYPE

Type of Program	No. of Programs	No. of Applications	No. of Applicants	No. of Participants
COLLEGE				
Academic Year Institutes	3 + (11)*	722	206	75
Summer Institutes	60 + (9)	15,213	8,236	2,097
In-Service Institutes	**	122	114	107
Conferences	35	1,036	928	849
Research Programs	63	889	837	409
Total	161 + (20)	17,982	10,321	3,537
SECONDARY				
Academic Year Institutes	41 + (11)	15,840	6,217	1,687
Summer Institutes	412 + (9)	184,161	56,294	20,267
In-Service Institutes	281 + (3)	15,722	13,433	12,650
Research Programs	48	1,049	904	361
Total	782 + (23)	216,772	76,848	34,965
ELEMENTARY				
Summer Institutes	21	5,108	1,884	705
In-Service Institutes	32 + (3)	1,403	1,217	1,154
Total	53 - (3)	6,511	3,101	1,859
	996 + (23)=			
TOTAL ALL PROGRAMS	1,019	241,265	90,270	40,361

* Numbers in parentheses indicate institutes which were held for participants from more than one teaching level. For college and secondary school teachers there were 11 AYI's and nine SI's; for secondary and elementary school teachers there were three ISI's.

** There were no In-Service Institutes set up for college teachers; however, college teachers did apply to and participate in In-Service Institutes for Secondary teachers. Some, or most, of the individuals represented probably teach at both levels but listed college teaching as their major assignment.

SUBVENTION

In the programs which offer stipends to cover living costs, approximately 94 percent of all participants received full stipend. Distribution of the amount of subvention for each of these programs is shown in Table 3. Since participants in In-Service programs do not receive a stipend, but receive only travel and book allowances for their subvention, data for the three In-Service programs are given in a separate part of the table

Table 3. DISTRIBUTION OF PARTICIPANTS BY PROGRAM AND BY SUBVENTION

A.

Type of Program	Total Participants	Granted Full Stipend	Granted Partial Stipend	Granted No Stipend
COLLEGE				
Academic Year Institute	75	75	0	0
Summer Conference	2,097	1,931	94	72
Conference	849	786	50	13
Research	409	405	4	0
SECONDARY				
Academic Year Institute	1,687	1,650	36	1
Summer Institute	20,267	18,991	1,110	166
Research	361	353	3	5
ELEMENTARY				
Summer Institute	705	629	62	14
Sub-Total	26,450	24,820	1,359	271

B.

Type of Program	Total Participants	Granted Book and Travel Allowance	Granted No Subvention
In-Service College	107	107	0
In-Service Secondary	12,650	12,384	266
In-Service Elementary	1,154	1,114	40
Sub-Total	13,911	13,605	306
TOTAL	40,361	24,820	14,964	577

Table 4 DISTRIBUTION OF APPLICANTS AND PARTICIPANTS BY MAJOR ASSIGNMENT AND BY LEVEL OF ASSIGNMENT

Applicants

Level	Teaching	Supervisor	Administrator	Research	Other	Total
College	7,074	15	41	144	21	7,295
Jr. College	1,549	9	5	23	6	1,592
Secondary 9-12	49,823	256	211	261	1,159	51,710
Secondary 7-9	23,019	139	106	87	546	23,897
Elementary 1-6	2,857	402	195	103	72	3,629
Other	2,813	247	240	239	1,001	4,540
TOTAL	87,135	1,068	798	857	2,805	92,663

Participants

College	2,405	7	13	52	8	2,485
Jr. College	632	4	3	10	3	652
Secondary 9-12	22,354	116	75	115	440	23,100
Secondary 7-9	10,656	62	38	40	223	11,019
Elementary 1-6	1,710	227	110	66	43	2,156
Other	1,271	128	113	106	398	2,018
TOTAL	39,028	544	354	389	1,115	41,430

Table 5 DISTRIBUTION OF APPLICANTS AND PARTICIPANTS BY MAJOR TEACHING ASSIGNMENT AND BY PROGRAM TYPE

Applicants

Program Type	College	Junior College	Secondary 7-12	Elementary 1-6	Other	Total	Applicant Total*
SI	5,192	1,269	55,647	1,986	3,940	68,034	66,414
AYI	141	68	6,133	7	313	6,662	6,423
ISI	75	39	13,102	1,217	492	14,925	14,764
Research	703	104	902	0	26	1,735	1,741
Conference	806	108	1	0	13	928	928
TOTAL	6,917	1,588	75,785	3,210	4,784	92,284	90,270

Participants

							Participant Total
SI	1,329	464	19,985	769	1,347	23,894	23,069
AYI	52	23	1,666	3	92	1,836	1,762
ISI	72	35	12,299	1,154	463	14,023	13,911
Research	348	50	360	0	12	770	770
Conference	741	96	1	0	11	849	849
TOTAL	2,542	668	34,311	1,926	1,925	41,372	40,361

* Data do not crossfoot horizontally because some participants checked more than one major teaching assignment.

Section II

Professional Characteristics of Applicants and Participants

Nearly all of the applicants and participants reported that their major assignment was teaching. Some persons indicated that they had more than one major assignment, while some did not check any major assignment.

Approximately one percent of the applicants and participants stated that their major assignment was supervision, less than one percent administration, and less than one percent research.

The distribution of applicants and participants cannot be described perfectly because some persons checked more than one teaching assignment. For that reason the percentage breakdown totals more than 100 percent.

Table 4 presents the distribution of applicants and participants by level and by assignment.

TEACHING ASSIGNMENTS OF APPLICANTS AND PARTICIPANTS

About nine percent of all applicants had positions in colleges and junior colleges, 82 percent were in secondary schools, three and a half percent were in elementary schools, and five percent indicated positions at combined levels.

Approximately six percent of all participants had positions in colleges or junior colleges, 83 percent were in secondary schools, five percent were in elementary schools, and five percent were in positions which combined levels.

The distribution of participants selected from applicants in the respective subject-matter fields was surprisingly uniform within individual programs. The over-all index of selection for college teachers was 34 percent, the range being from 30 percent to 39 percent for the eight subject-matter fields. For secondary teachers the overall index was 43 percent, ranging from 42 percent to 53 percent for the eight subject-matter fields.

There were significant differences in the selection index from program to program, either because of the numbers of applicants for the available appointments or because of the type of program or the length of program.

Table 7, consisting of full-page summaries, presents the distribution by subject-matter responsibilities of applications, applicants, and participants.

Table 6 below shows the percentage of applicants who were selected to participate.

Table 6. PERCENTAGE OF APPLICANTS WHO PARTICIPATED IN EACH SUBJECT-MATTER FIELD BY PROGRAM TYPE

Program Attended	Biology	Chem.	Earth Science	Engr.	General Science	Math	Physics	Other	Total
COLLEGE									
AYI	36	44	43	100	32	35	41	38	37
SI	26	26	26	26	25	26	26	26	26
ISI	91	100	100	100	93	94	93	89	94
Conference	91	93	90	90	92	94	93	93	92
Research	49	50	44	56	52	50	51	49	50
Total	32	36	39	30	36	33	34	33	34
SECONDARY									
AYI	29	29	29	67	27	31	32	25	29
SI	35	34	37	43	35	34	36	33	35
ISI	95	94	95	90	95	94	95	94	94
Research	41	42	47	100	41	41	39	40	41
Total	43	42	47	53	43	46	43	43	44
GRAND TOTAL	42	41	46	31	43	45	42	41	43

Table 7. DISTRIBUTION BY SUBJECT-MATTER RESPONSIBILITIES OF APPLICATIONS, APPLICANTS, AND PARTICIPANTS ACCORDING TO ACADEMIC LEVEL AND MAJOR PROGRAM TYPE (For All But Elementary Teachers)

Applications

Program Attended	Biology	Chem.	Earth Science	Engr.	General Science	Math	Physics	Other	Total
AYI College	84	17	18	1	38	113	29	51	351
Jr. College	93	45	37	1	64	251	54	61	606
Total	177	62	55	2	102	364	83	112	957
SI College	2613	2034	713	2776	529	3037	1684	1716	15102
Jr. College	1046	1161	230	753	219	2026	1317	1124	7876
Total	3659	3195	943	3529	748	5063	3001	2840	22978
ISI College	14	6	3	1	9	31	10	12	86
Jr. College	11	4	5	1	7	21	6	10	65
Total	25	10	8	2	16	52	16	22	151
Conf. - College	110	186	105	106	48	196	142	106	999
Jr. College	21	15	17	12	16	81	40	28	230
Total	131	201	122	118	64	277	182	134	1229
Res. - College	244	406	52	40	29	80	133	118	1102
Jr. College	52	71	2	3	7	12	18	10	175
Total	296	477	54	43	36	92	151	128	1277
TOTAL COLLEGE	4288	3945	1182	3694	966	5848	3433	3236	26592
AYI 9-12	2662	2583	341	4	2353	5013	1813	1029	15798
7-9	334	96	132	1	2207	1848	102	364	5084
Total	2996	2679	473	5	[illegible]	6861	1915	1393	20882
SI 9-12	38826	32511	5022	184	27792	[illegible]	22377	15624	198298
7-9	4113	1160	4051	4	28313	22989	846	4458	65934
Total	42939	33671	9073	188	56105	78951	23223	20082	264232
ISI 9-12	2320	2056	367	20	1607	5381	1460	1121	14332
7-9	311	119	369	2	2351	3504	117	724	7497
Total	2631	2175	736	22	3958	8885	1577	1845	21829
Res. 9-12	331	336	14	1	128	169	168	80	1227
7-9	37	12	2	0	65	18	12	7	153
Total	368	348	16	1	193	187	180	87	1380
TOTAL SECONDARY	48934	38873	10298	216	64816	94884	26895	23407	308323
GRAND TOTAL	53222	42818	11480	3910	65782	100732	30328	26643	334915

Applicants

Program Attended	Biology	Chem.	Earth Science	Engr.	General Science	Math	Physics	Other	Total
AYI College	24	5	5	1	11	34	7	12	99
Jr. College	31	11	9	1	23	86	15	20	196
Total	55	16	14	2	34	120	22	32	295
SI College	1297	1003	321	1382	287	1790	859	907	7846
Jr. College	553	584	124	389	126	1032	694	563	4065
Total	1850	1587	445	1771	413	2822	1553	1470	11,911
ISI College	12	6	3	1	8	29	9	10	78
Jr. College	10	4	5	1	7	20	6	9	62
Total	22	10	8	2	15	49	15	19	140
Conf. - College	96	165	91	95	39	178	130	95	889
Jr. College	18	12	15	10	14	70	34	24	197
Total	114	177	106	105	53	248	164	119	1086
Res. - College	228	382	43	31	25	73	124	106	1012
Jr. College	59	65	2	3	6	11	17	9	172
Total	287	447	45	34	31	84	141	115	1184
TOTAL COLLEGE	2328	2237	618	1914	546	3323	1895	1755	14,616
AYI 9-12	1142	1021	134	2	940	2072	806	410	6527
7-9	138	26	62	1	883	874	49	118	2151
Total	1280	1047	196	3	1823	2946	855	528	8678
SI 9-12	12,206	10,713	1543	63	8651	19,470	7844	5148	65,638
7-9	1321	348	1236	14	8811	8322	297	1502	21,851
Total	13,527	11,061	2779	77	17,462	27,792	8141	6650	87,489
ISI 9-12	2014	1784	320	18	1422	4684	1231	870	12,343
7-9	281	97	329	2	2118	3175	91	619	6712
Total	2295	1881	649	20	3540	7859	1322	1489	19,055
Res. 9-12	291	290	13	1	112	146	152	68	1073
7-9	32	9	2	0	55	16	9	5	128
Total	323	299	15	1	167	162	161	73	1201
TOTAL SECONDARY	17,425	14,288	3639	101	22,992	38,759	10,479	8740	116,423
GRAND TOTAL	19,753	16,525	4257	2015	23,538	42,082	12,374	10,495	131,039

Participants

Program Attended	Biology	Chem.	Earth Science	Engr.	General Science	Math	Physics	Other	Total
AYI College	9	2	2	1	4	12	3	5	38
Jr. College	11	5	4	1	7	30	6	7	71
Total	20	7	6	2	11	42	9	12	109
SI College	331	256	83	354	71	452	229	236	2012
Jr. College	143	149	32	105	33	274	177	145	1058
Total	474	405	115	459	104	726	406	381	3070
ISI College	11	6	3	1	7	27	8	9	72
Jr. College	9	4	5	1	7	19	6	8	59
Total	20	10	8	2	14	46	14	17	131
Conf. - College	88	153	82	86	37	167	120	89	822
Jr. College	16	11	13	9	12	65	32	22	180
Total	104	164	95	95	49	232	152	111	1002
Res. - College	112	194	19	17	12	37	63	52	506
Jr. College	29	31	1	2	4	5	9	5	86
Total	141	225	20	19	16	42	72	57	592
TOTAL COLLEGE	759	811	244	577	194	1088	653	578	4904
AYI 9-12	326	301	41	1	251	640	244	105	1909
7-9	43	7	16	1	243	259	29	27	625
Total	369	308	57	2	494	899	273	132	2534
SI 9-12	4297	3674	546	28	2967	6714	2806	1642	22674
7-9	463	138	481	5	3111	2833	121	549	7701
Total	4760	3812	1027	33	6078	9547	2927	2191	30375
ISI 9-12	1912	1687	302	16	1349	4386	1170	822	11644
7-9	265	89	317	2	2002	2995	86	583	6339
Total	2177	1776	619	18	3351	7381	1256	1405	17983
Res. 9-12	120	123	6	1	46	59	58	27	440
7-9	13	4	1	0	23	7	4	2	54
Total	133	127	7	1	69	66	62	29	494
TOTAL SECONDARY	7439	6023	1710	54	9992	17893	4518	3757	51386
GRAND TOTAL	8198	6834	1954	631	10186	18981	5171	4335	56290

Table 9 DISTRIBUTION OF APPLICANTS AND PARTICIPANTS BY AGE GROUP AND BY PROGRAM

Applicants

Age Group	College					Secondary				Elementary	
	AYI	SI	ISI	Conference	Research	AYI	SI	ISI	Research	ISI	SI
20 & under	0	0	0	0	0	0	7	19	0	2	0
21-25	32	89	4	10	16	137	3,229	2,362	5	134	32
26-30	54	1,346	19	96	149	1,881	13,662	2,881	137	147	248
31-35	48	1,924	26	157	195	1,302	12,626	2,190	233	149	391
36-40	32	1,612	34	169	189	602	9,210	1,836	175	190	415
41-45	19	1,193	9	151	68	241	5,913	1,204	124	165	264
46-50	4	747	7	131	64	102	4,343	1,001	83	171	243
51-55	1	590	2	81	38	89	3,296	778	50	161	131
56-60	1	261	1	80	11	31	1,789	539	46	80	48
61-65	0	78	0	27	1	3	441	162	6	10	11
66 & over	0	6	0	6	0	2	101	63	2	4	3
TOTAL	191	7,846	102	908	731	4,390	54617	13,035	861	1,213	1,786

Participants

20 & under	0	0	0	0	0	0	2	17	0	2	0
21-25	12	21	3	9	9	42	1,089	2,233	3	126	12
26-30	19	332	18	86	69	555	4,836	2,712	58	140	90
31-35	17	467	25	141	94	365	4,790	2,061	94	143	143
36-40	12	395	33	157	90	175	3,681	1,728	72	180	150
41-45	7	326	8	135	35	71	2,103	1,131	49	157	101
46-50	2	198	6	120	35	30	1,495	943	28	161	90
51-55	1	157	1	77	21	21	956	729	23	153	55
56-60	1	81	1	75	6	6	489	499	17	76	21
61-65	0	31	0	25	1	1	145	154	4	9	5
66 & over	0	4	0	5	0	0	19	58	1	4	2
TOTAL	71	2,012	95	830	360	1,266	19,605	12,265	349	1,151	669

Section III

Ages of Applicants and Participants

From the dates of birth entered on the Applicant Record Cards submitted by all applicants, it was determined that the youngest applicant was only 18 years of age, while the oldest applicant was 74. These were the extremes. For most programs, the youngest applicant was 20 or 21, the oldest in the 60's. The average age of all applicants in the respective programs ranged from 30 to 42.

For participants the youngest age was around 21 in nearly every program, while the oldest participant was almost always high in the 60's. The average age of participants went from a low of 32 years to a high of 42 years, the highest average being for College Conferences.

Table 8 presents the ages of the youngest and oldest applicants and participants, as well as averages of all persons in each program.

Table 9 on the adjacent page presents the distribution of applicants and participants by age groups and by program, the age groups being in intervals of five years.

Persons who did not give year of birth on the Applicant Record Cards were not included in the computation of averages.

Table 8. DISTRIBUTION OF APPLICANTS AND PARTICIPANTS BY AGE AND BY PROGRAM TYPE

	Applicants			Participants		
Program Type	Youngest	Oldest	Average	Youngest	Oldest	Average
COLLEGE						
AYI	21	61	33	21	49	32
SI	21	68	37	21	63	37
Conference	22	67	42	22	67	42
Research	22	68	38	23	62	37
SECONDARY						
AYI	21	66	30	21	60	32
SI	18	69	35	18	67	36
ISI	20	74	35	20	69	35
Research	23	65	36	23	65	39
ELEMENTARY						
SI	21	74	39	22	67	39
ISI	20	74	38	20	69	39

Section IV

Sequential and Consecutive Participation of Applicants and Participants

A. Participants With Previous Participation

Approximately 53.4 percent of all participants were previously enrolled in at least one NSF program.

The teachers who indicated previous participation furnished detailed data as to the Institutes and/or Programs they had previously attended, the type of program, the year attended, and the type of stipend. Those who attended more than one previous program listed all Institutes and Programs they attended.

An analysis of data for participants with previous attendance at any Institute or Program showed the following distribution of previous participation:

Table 10. NUMBER AND PERCENT OF PARTICIPANTS WITH PREVIOUS PARTICIPATION

Attended	Number of Persons	Percent of All Participants
One previous program	12,874	31.9
Two previous programs	5,693	14.1
Three previous programs	2,316	5.7
Four previous programs	603	1.5
Five previous programs	77	.2
TOTAL (Previous Participation)	21,563	53.4
TOTAL (No Previous Programs)	18,790	46.6
Incomplete or faulty data	8	

B. Participants With No Previous Participation

Approximately 46 percent of all participants indicated on their Applicant Record Cards that they had not previously attended any NSF-sponsored program, the remaining 54 percent indicating previous participation and listing the programs they had attended in prior years.

The distribution of those participants who had not previously attended an NSF-sponsored program is indicated in Table 11.

Table 11. NUMBER AND PERCENT OF PARTICIPANTS WITHOUT PREVIOUS PARTICIPATION

	Number of Participants With No Previous Participation	Percentage With No Previous Previous Participation
COLLEGE		
Academic Year Institutes	39	52%
Summer Institutes	843	40%
In-Service Institutes	28	26%
Conferences	412	48%
Research Programs	213	52%
SECONDARY		
Academic Year Institutes	572	34%
Summer Institutes	9,244	44%
In-Service Institutes	6,171	49%
Research Programs	57	16%
ELEMENTARY		
Summer Institutes	313	44%
In-Service Institutes	898	78%
TOTAL	18,790	

Table 12. EXTENT OF SEQUENTIAL PARTICIPATION

Participants in 1962-63 Who Also Attended Programs at the Same Institution in 1961-62 or 1960-61 or Both

Total No. in 1962-63 Program	Participated in 1962-63 Program	During 1961-62 TOTAL	SI	AYI	ISI	Res.	Conf.	During 1960-61 TOTAL	SI	AYI	ISI	Res.	Conf.	During both Prior Years TOTAL	SI	AYI	ISI	Res.	Conf.
	COLLEGE																		
75	AYI	9	8	0	0	0	1	4	4	0	0	0	0	5	5	0	0	0	0
2,097	SI	413	362	0	45	4	2	148	129	2	15	0	2	127	123	0	4	0	0
107	ISI	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0
849	Conf.	2	2	0	0	0	0	7	6	0	0	0	1	3	3	0	0	0	0
409	Res.	5	3	1	0	0	1	9	6	1	0	0	2	0	0	0	0	0	0
3,537	Total	429	375	1	45	4	4	170	147	3	15	0	5	135	131	0	4	0	0
	SECONDARY																		
1,687	AYI	54	51	0	3	0	0	24	22	0	2	0	0	11	11	0	0	0	0
20,267	SI	3441	3076	3	327	4	31	1804	1684	5	114	0	1	629	593	1	35	0	0
12,650	ISI	2417	134	26	2256	0	1	1413	408	14	991	0	0	127	21	0	106	0	0
361	Res.	22	18	4	0	0	0	9	8	1	0	0	0	4	4	0	0	0	0
34,965	Total	5934	3279	33	2586	4	32	3250	2122	20	1107	0	1	771	629	1	141	0	0
	ELEMENTARY																		
705	SI	102	83	0	19	0	0	42	38	0	4	0	0	6	4	0	2	0	0
1,154	ISI	101	4	0	97	0	0	57	19	0	38	0	0	81	26	0	55	0	0
1,859	Total	203	87	0	116	0	0	99	57	0	42	0	0	87	30	0	57	0	0
40,361	TOTAL	6566	3741	34	2747	8	36	3519	2326	23	1164	0	6	993	790	1	202	0	0

Table 13 EXTENT OF CONSECUTIVE PARTICIPATION

Participants in 1962-63 Who Also Attended Programs at Different Institutions in 1961-62 or 1960-61 or Both

	COLLEGE																		
75	AYI	13	12	0	0	0	1	4	4	0	0	0	0	2	2	0	0	0	0
2,097	SI	168	149	6	10	0	3	132	121	2	8	0	1	17	16	0	0	0	1
107	ISI	8	6	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0
849	Conf.	118	102	1	3	0	12	59	46	5	2	2	4	15	13	0	0	0	2
409	Res.	17	15	2	0	0	0	15	7	3	0	0	5	2	2	0	0	0	0
3,537	Total	324	284	9	13	0	13	212	180	10	10	2	10	36	33	0	0	0	3
	SECONDARY																		
1,687	AYI	417	396	2	19	0	0	109	28	0	81	0	0	28	28	0	0	0	0
20,267	SI	2053	1817	4	231	0	1	2726	2297	14	402	2	11	1024	964	2	58	0	0
12,650	ISI	1146	813	26	304	0	3	820	681	18	121	0	0	133	26	0	107	0	0
361	Res.	68	48	7	9	0	4	43	37	3	3	0	0	7	6	0	1	0	0
34,965	Total	3684	3074	39	563	0	8	3698	3043	35	607	2	11	1192	1024	2	166	0	0
	ELEMENTARY																		
705	SI	62	54	0	8	0	0	49	42	0	7	0	0	20	20	0	0	0	0
1,154	ISI	107	74	0	33	0	0	81	75	1	5	0	0	53	33	0	20	0	0
1,859	Total	169	128	0	41	0	0	130	117	1	12	0	0	73	53	0	20	0	0
40,361	TOTAL	4177	3486	48	617	0	26	4040	3340	46	629	4	21	1301	1110	2	186	0	3

C. Prior Participation at the Same Institution or at Different Institutions

Approximately 19 percent of all participants in the 1962-63 program had participated in a program during 1961-62 at the same institution, while another 9 percent had participated in a program at the same institution during 1960-61. About 14 percent of the 1962-63 participants were enrolled in programs at other institutions during 1961-62 while another 10 percent were enrolled in programs at other institutions during 1960-61.

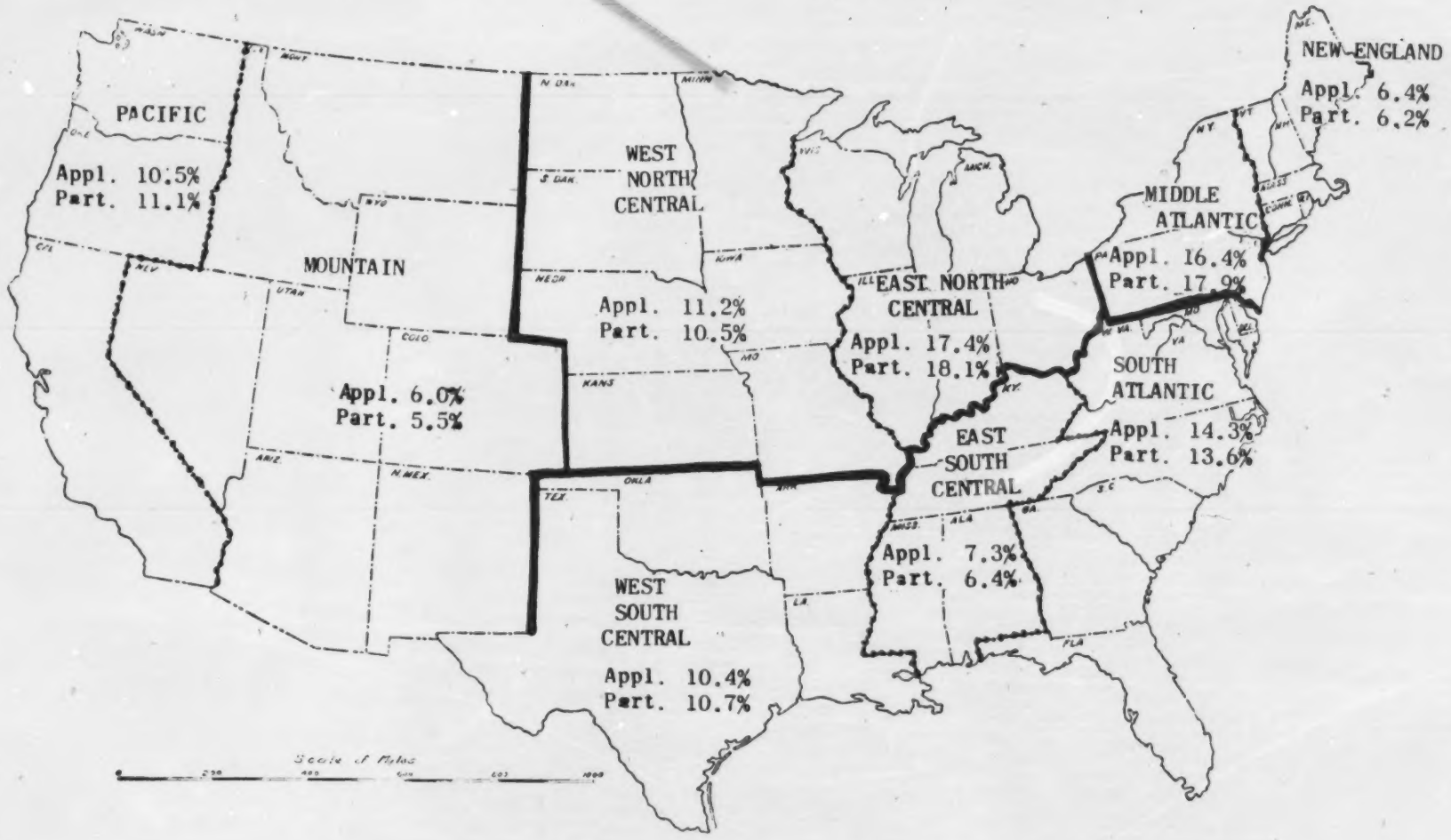
Combining the participation at all institutions, about 32 percent of all 1962-63 participants were enrolled at some institute during 1961-62 and another 19 percent had been enrolled in some program during 1960-61. Some participants attended institutes in both years, while some other participants attended two or even three institutes in a single year.

About 2.5 percent of all 1962-63 participants attended the same institution in both prior years, while 3.2 percent attended different institutions in both prior years.

Table 12 shows the distribution of 1962-63 participants who also attended programs at the same institution in 1961-62 or 1960-61 or both years.

Table 13 shows the 1962-63 participants who also attended programs at a different institution in 1961-62 or 1960-61 or both years.

Table 14. GEOGRAPHIC PERCENTAGE DISTRIBUTION OF APPLICANTS AND PARTICIPANTS BY CENSUS DIVISION



Section V

Geographic Distribution of Applications, Applicants, and Participants

The distribution of applications, applicants, and participants closely approximated the distribution of population by region. Percentages of these totals were distributed as follows:

	Population	Applications	Applicants	Participants
North East	24.9	24.3	22.8	24.1
North Central	28.8	29.7	28.6	28.6
South	30.6	29.2	32.0	30.7
West	15.6	16.8	16.5	16.5

Only 7.4 percent of the participants were from the twenty largest cities in the United States. New York had the largest number of participants of these twenty metropolitan areas, accounting for 2.1 percent of all participants.

Table 14 shows in map form the geographic distribution of applicants and participants by Census Division.

Table 15 (Fold-outs 1 and 2) presents the geographic distribution of applications, applicants, and participants by the four regions, census division, by state, and by major city.

Table 16 (Fold-outs 3 and 4) presents the percentage distribution of these data in the same geographic breakdown.

Table 17. DISTRIBUTION OF PARTICIPANTS BY STATE AND BY SUBJECT-MATTER RESPONSIBILITIES

	Biology	Chem.	Earth Science	Engin-eering	General Sciences	Math	Physics	Other	Total
Alabama	164	158	21	6	331	424	114	78	1296
Alaska	5	2	5	0	12	26	6	4	60
Arizona	115	69	21	4	115	204	37	43	608
Arkansas	90	78	18	5	171	312	59	114	847
California	549	402	164	39	792	1649	283	597	4475
Colorado	107	57	31	15	154	234	46	84	728
Connecticut	121	113	84	7	173	367	81	50	996
Delaware	10	12	2	1	26	52	10	14	127
D. C.	9	14	2	0	36	46	17	8	132
Florida	284	197	63	4	431	671	114	182	1946
Georgia	152	131	20	3	247	342	102	91	1088
Hawaii	64	22	11	2	93	89	25	93	399
Idaho	43	21	18	13	51	147	32	31	356
Illinois	348	365	56	8	437	883	270	174	2541
Indiana	221	182	25	13	252	526	134	152	1505
Iowa	257	220	31	6	274	335	168	128	1419
Kansas	162	143	29	9	217	382	120	121	1183
Kentucky	98	101	23	5	138	187	128	35	715
Louisiana	201	159	17	7	276	421	125	103	1309
Maine	51	19	19	4	48	122	55	33	351
Maryland	106	82	25	7	159	268	69	70	786
Massachusetts	254	243	72	22	338	591	194	132	1846
Michigan	447	217	87	26	406	843	140	241	2407
Minnesota	210	164	72	4	298	356	156	104	1364
Mississippi	146	110	6	3	151	242	54	35	747
Missouri	159	139	17	10	237	380	101	88	1131
Montana	41	32	5	1	43	104	27	31	284
Nebraska	107	54	12	0	104	147	58	54	536
Nevada	12	7	3	0	25	71	7	17	142
New Hampshire	48	46	17	3	39	96	33	16	298
New Jersey	169	158	84	22	362	729	182	140	1846
New Mexico	36	35	24	17	47	58	31	42	290
New York	581	631	237	54	968	1707	447	377	5002
North Carolina	302	182	42	8	331	449	166	108	1588
North Dakota	50	57	36	11	115	123	53	44	489
Ohio	272	305	47	20	502	941	294	201	2582
Oklahoma	236	138	24	10	264	460	146	171	1449
Oregon	89	79	13	8	132	380	65	98	864
Pennsylvania	437	394	191	26	568	1117	324	228	3285
Rhode Island	22	29	2	0	42	91	27	21	234
South Carolina	61	58	22	2	204	206	62	47	662
South Dakota	44	37	17	2	57	102	24	27	310
Tennessee	131	107	17	4	209	430	92	88	1078
Texas	395	341	153	21	555	889	242	233	2829
Utah	42	30	12	4	63	162	26	31	370
Vermont	54	31	17	2	42	67	31	33	277
Virginia	178	142	68	9	248	419	129	70	1263
Washington	171	124	58	31	159	458	103	111	1215
West Virginia	69	43	12	3	99	213	54	45	538
Wisconsin	258	196	47	8	303	481	273	206	1772
Wyoming	33	31	7	0	32	49	24	16	192
Puerto Rico	144	80	6	0	271	71	76	73	721
TOTAL	8355	6787	2112	489	11647	20119	5636	5333	60478

From data entered on the Applicant Record Cards by participants it was possible to obtain a distribution of subject matter responsibility. Since some participants checked more than one subject matter, it was not possible to relate percentages exactly to the total number of participants.

Approximately one third of the 1962-63 participants indicated more than one subject matter responsibility.

Approximately half (52%) of the participants indicated mathematics as a subject matter responsibility, followed by general science (30%), biology (22%), chemistry (18%), physics (14%), earth science (5%), and engineering (1%). About 14% of the participants stated that they taught other subjects.

Table 17 shows the distribution of subject-matter responsibilities of participants by state of residence.

Participants in the 1962-63 programs preferred to attend NSF Institutes at institutions in the state or census division in which they were employed. Approximately 62.8 of the participants who reported details of employment had state of employment the same as state of attendance at an institute.

Examination of the attendance at institutes in states in the same census division showed that approximately three-fourths of the participants were enrolled at institutes in the census division of their employment.

In New England approximately 77 percent of the participants employed in tne New England states attended institutes in that census division. In the Middle Atlantic division of New York, New Jersey and Pennsylvania, the percentage was approximately 79. In the North Central census division it was 73 percent; New England 77; West North Central 70; South Atlantic 79; East South Central 70; West South Central 76; Mountain 65; Pacific 77.

Table 18 on Fold-out Page 5 shows the distribution of participants by state of employment and state in which the institute attended was located. Ruled lines separate the respective census divisions. Participants who did not indicate state of employment were not included.

Foldout 1 (Cont. on next page)

Geographic Distribution of Applications, Applicants, and Participants in Each Major Program Type (By Region, Census Division, State, and Major City)

Table 15

NUMBER OF APPLICATIONS

	TOTAL	SI	AYI	ISI	Res.	Conf.
U. S. TOTAL	230,434	194,557	16,117	16,863	1,870	1,027
Regions						
North East	56,031	47,428	3,045	4,854	473	231
North Central	68,350	58,076	5,494	3,903	564	313
South	67,265	57,158	4,331	4,963	497	316
West	38,788	31,895	3,247	3,143	336	167
New England	14,524	12,297	871	1,191	103	62
Maine	1,188	1,041	90	49	3	5
New Hampshire	1,023	849	91	73	7	3
Vermont	997	802	122	54	9	10
Massachusetts	6,430	5,516	346	493	44	31
Rhode Island	935	712	83	124	12	4
Connecticut	3,951	3,377	139	398	28	9
Middle Atlantic	41,507	35,131	2,174	3,663	370	169
New York	21,240	18,081	1,086	1,746	251	76
New Jersey	7,295	6,237	241	753	37	27
Pennsylvania	12,972	10,813	847	1,164	82	66
East North Central	42,422	36,374	2,835	2,687	323	203
Ohio	9,179	7,920	531	592	63	73
Indiana	6,060	5,211	340	443	41	25
Illinois	10,707	9,273	583	724	87	40
Michigan	10,330	8,916	779	553	48	34
Wisconsin	6,146	5,054	602	375	84	31
West North Central	25,928	21,702	2,659	1,216	241	110
Minnesota	6,608	5,698	674	153	59	24
Iowa	4,992	4,126	523	260	71	12
Missouri	4,530	3,933	309	231	34	23
North Dakota	1,292	957	201	112	15	7
South Dakota	1,093	901	136	42	4	10
Nebraska	2,715	2,306	294	87	20	8
Kansas	4,698	3,781	522	231	38	26
South Atlantic	29,562	25,028	1,866	2,343	193	132
Delaware	474	402	4	39	25	4
Maryland	3,237	2,786	241	168	24	18
D. C.	681	582	20	67	8	4
Virginia	4,558	3,719	233	561	30	15
West Virginia	2,768	2,463	126	159	10	10
North Carolina	4,966	4,172	438	286	41	29
South Carolina	3,505	3,224	174	85	11	11
Florida	4,540	3,617	228	651	25	19
Georgia	4,833	4,063	402	327	19	22

NUMBER OF APPLICANTS						NUMBER OF PARTICIPANTS					
TOTAL	SI	AYI	ISI	Res.	Conf.	TOTAL	SI	AYI	ISI	Res.	Conf.
88,343	64,938	6,324	14,458	1,703	920	39,020	22,066	1,716	13,624	765	849
20,164	14,089	1,346	4,080	435	214	9,413	4,761	333	3,932	184	203
25,283	19,135	1,976	3,398	498	276	11,177	6,869	584	3,225	242	257
28,288	21,436	1,821	4,293	460	278	11,974	7,081	456	3,976	200	252
14,608	10,278	1,181	2,697	310	152	6,456	3,355	334	2,491	139	137
5,669	4,068	440	1,007	97	57	2,431	1,299	88	953	37	54
557	465	43	42	3	4	189	140	6	39	0	4
415	302	41	62	7	3	175	102	9	58	3	3
423	319	40	47	8	9	160	97	9	43	3	8
2,480	1,786	201	421	43	29	1,073	583	36	409	18	27
461	304	36	106	11	4	169	60	7	93	5	4
1,333	892	79	329	25	8	665	317	21	311	8	8
14,495	10,021	906	3,073	338	157	6,982	3,462	245	2,979	147	149
7,126	4,883	482	1,462	228	71	3,396	1,694	112	1,425	97	68
2,512	1,721	103	627	36	25	1,251	583	30	603	11	24
4,857	3,417	321	984	74	61	2,335	1,185	103	951	39	57
15,387	11,602	1,038	2,282	284	181	7,073	4,261	321	2,181	141	169
3,611	2,787	198	503	55	68	1,696	1,046	71	489	26	64
2,204	1,643	123	381	35	22	982	541	42	359	19	21
3,747	2,819	206	611	76	35	1,810	1,110	53	578	38	31
3,479	2,612	327	469	41	30	1,543	952	95	448	19	29
2,346	1,741	184	318	77	26	1,042	612	60	307	39	24
9,896	7,533	938	1,116	214	95	4,104	2,608	263	1,044	101	88
2,219	1,812	202	128	49	19	861	628	71	119	25	18
1,861	1,366	201	222	61	11	844	540	51	213	29	11
1,861	1,389	140	281	31	20	851	531	31	256	15	18
749	581	51	97	14	6	273	148	18	92	9	6
614	511	54	36	4	9	170	112	15	34	1	8
876	672	107	69	20	8	336	234	23	66	5	8
1,716	1,193	183	283	35	22	769	415	54	264	17	19
12,607	9,573	758	1,979	180	117	5,292	3,075	194	1,825	92	106
252	188	2	33	25	4	89	52	0	28	5	4
1,275	1,004	86	147	22	16	615	428	23	138	11	15
293	217	7	57	8	4	121	59	3	54	1	4
2,050	1,442	113	455	27	13	924	459	34	430	19	12
1,193	981	57	138	8	9	378	233	8	124	5	8
2,241	1,707	226	243	39	26	884	574	42	223	23	22
1,466	1,321	54	72	9	10	421	323	17	65	7	9
2,198	1,502	102	554	24	16	1,195	620	35	512	13	15
1,639	1,211	111	280	18	19	665	357	32	251	8	17

Foldout 2 (Cont. on next page)

Table 15 (Cont.)

Region of Residence	TOTAL	SI	AYI	ISI	Res.	Conf.
East South Central	13,898	11,625	1,124	973	98	78
Kentucky	2,192	1,924	93	133	18	24
Tennessee	4,135	3,556	203	321	26	29
Alabama	4,585	3,729	471	342	33	10
Mississippi	2,986	2,416	357	177	21	15
West South Central	23,805	20,505	1,341	1,647	206	106
Oklahoma	4,005	3,344	281	325	41	14
Arkansas	3,140	2,702	159	254	18	7
Louisiana	4,486	3,632	280	520	31	23
Texas	12,174	10,827	621	548	116	62
Mountain	13,909	11,458	1,417	855	128	51
Montana	1,250	1,023	214	0	5	8
Idaho	1,193	848	137	193	10	5
Wyoming	745	591	104	47	2	1
Colorado	3,045	2,363	447	206	21	8
New Mexico	2,330	2,049	216	37	17	11
Arizona	2,685	2,284	89	252	55	5
Utah	1,985	1,692	197	67	17	12
Nevada	676	608	13	53	1	1
Pacific	24,879	20,437	1,830	2,288	208	116
Washington	4,242	3,610	293	307	11	21
Oregon	3,928	3,218	302	385	13	10
California	15,770	12,851	1,171	1,489	174	85
Alaska	144	122	21	0	1	0
Hawaii	795	636	43	107	9	0
Cities						
New York	5,022	4,408	151	438	19	6
Chicago	971	781	110	67	11	2
Los Angeles	809	648	70	77	6	8
Philadelphia	1,327	1,139	61	107	15	5
Detroit	1,360	1,201	48	93	13	5
Houston	787	653	47	79	6	2
Baltimore	1,048	920	44	72	6	6
Cleveland	464	385	38	29	7	5
Washington	503	421	34	37	8	3
St. Louis	492	413	52	21	2	4
Milwaukee	609	516	39	38	10	6
San Francisco	408	332	37	31	8	0
Boston	382	344	18	20	0	0
Dallas	546	481	30	30	2	3
New Orleans	498	424	41	21	9	3
Pittsburgh	715	609	60	39	4	3
San Antonio	259	201	34	16	7	1
Seattle	383	326	37	19	0	1
San Diego	253	212	15	20	6	0
Buffalo	324	285	18	13	6	2
TOTAL	17,160	14,699	984	1,267	145	65

Fold-out 2

TOTAL	SI	AYI	ISI	Res.	Conf.	TOTAL	SI	AYI	ISI	Res.	Conf.
6,410	4,884	470	898	89	69	2,511	1,471	112	833	33	62
1,059	859	41	124	14	21	423	272	10	115	7	19
1,909	1,476	86	297	24	26	710	372	23	280	12	23
2,163	1,581	229	313	31	9	851	505	44	289	5	8
1,279	968	114	164	20	13	527	322	35	149	9	12
9,271	6,979	593	1,416	191	92	4,171	2,535	159	1,318	75	84
1,608	1,145	122	294	35	12	815	471	44	271	18	11
1,128	802	83	219	18	6	523	291	20	201	5	6
2,079	1,480	107	446	27	19	1,071	591	30	420	13	17
4,456	3,552	281	457	111	55	1,762	1,182	65	426	39	50
5,294	3,857	525	745	121	46	2,143	1,249	130	677	47	40
470	397	61	0	5	7	151	126	14	0	4	7
657	426	50	168	8	5	315	135	13	156	6	5
329	241	43	42	2	1	124	81	9	33	0	1
1,163	784	177	177	18	7	482	267	37	162	10	6
836	709	68	33	16	10	258	189	26	30	5	8
928	612	39	218	54	5	456	230	12	196	14	4
626	458	82	59	17	10	236	146	18	56	8	8
285	230	5	48	1	1	121	75	1	44	0	1
9,314	6,421	656	1,942	189	106	4,313	2,106	204	1,814	92	97
1,545	1,137	116	263	11	18	706	418	24	246	3	15
1,456	985	121	331	10	9	696	341	39	301	7	8
5,700	3,836	381	1,246	158	79	2,668	1,219	122	1,176	77	74
102	84	17	0	1	0	33	29	4	0	0	0
511	379	21	102	9	0	210	99	15	91	5	0
1701	1,249	60	369	18	5	819	429	23	358	5	4
373	261	43	58	9	2	160	84	15	54	5	2
343	240	24	67	5	7	164	77	17	63	1	6
542	402	30	93	13	4	232	113	26	81	8	4
460	331	26	85	13	5	241	128	24	77	7	5
315	215	24	68	6	2	137	63	13	59	0	2
354	256	22	64	6	6	186	102	18	57	3	6
172	117	17	27	7	4	82	42	10	22	4	4
211	151	15	34	8	3	94	45	14	31	1	3
205	160	20	20	2	3	78	49	8	17	1	3
205	139	17	34	9	6	113	62	11	31	3	6
160	106	18	28	8	0	69	34	5	26	4	0
128	98	12	18	0	0	60	36	7	17	0	0
201	154	14	28	2	3	89	53	7	25	1	3
189	143	16	18	9	3	84	51	9	16	5	3
284	217	24	36	4	3	123	74	11	33	2	3
105	68	16	13	7	1	46	27	3	12	3	1
127	89	20	17	0	1	57	36	6	14	0	1
114	82	9	17	6	0	50	28	4	15	3	0
119	88	11	12	6	2	55	34	4	11	4	2
6,308	4,566	438	1,106	138	60	2,939	1567	235	1,019	60	58

Percentage Geographic Distribution of Applications, Applicants, and Participants in Each Major Program Type (By Region, Census Division, State, and Major City)

Table 16

Region of Residence	NUMBER OF APPLICATIONS TOTAL	SI	AYI	ISI	Res.	Conf.
North East	24.3	24.4	18.9	28.8	25.3	22.5
North Central	29.7	29.9	34.1	23.1	30.2	30.5
South	29.2	29.4	26.9	29.4	26.6	30.8
West	16.8	16.4	20.1	18.6	18.0	16.3
New England	6.3	6.3	5.4	7.1	5.5	6.0
Maine	.5	.5	.6	.3	.2	.5
New Hampshire	.4	.4	.6	.4	.4	.3
Vermont	.4	.4	.8	.3	.5	1.0
Massachusetts	2.8	2.8	2.1	2.9	2.4	3.0
Rhode Island	.4	.4	.5	.7	.6	.4
Connecticut	1.7	1.7	.9	2.4	1.5	.9
Middle Atlantic	18.0	18.1	13.5	21.7	19.8	16.5
New York	9.2	9.3	6.7	10.4	13.4	7.4
New Jersey	3.2	3.2	1.5	4.5	2.0	2.6
Pennsylvania	5.6	5.6	5.3	6.9	4.4	6.4
East North Central	18.4	18.7	17.6	15.9	17.3	19.8
Ohio	4.0	4.1	3.3	3.5	3.4	7.1
Indiana	2.6	2.7	2.1	2.6	2.2	2.4
Illinois	4.6	4.8	3.6	4.3	4.7	3.9
Michigan	4.5	4.6	4.8	3.3	2.6	3.3
Wisconsin	2.7	2.6	3.7	2.2	4.5	3.0
West North Central	11.3	11.2	16.5	7.2	12.9	10.7
Minnesota	2.9	2.9	4.2	.9	3.2	2.3
Iowa	2.2	2.1	3.2	1.5	3.8	1.2
Missouri	2.0	2.0	1.9	1.4	1.8	2.2
North Dakota	.6	.5	1.2	.7	.8	.7
South Dakota	.5	.5	.8	.2	.2	1.0
Nebraska	1.2	1.2	1.8	.5	1.1	.8
Kansas	2.0	1.9	3.2	2.0	2.0	2.5
South Atlantic	12.8	12.9	11.6	13.9	10.3	12.9
Delaware	.2	.2	*	.2	1.3	.4
Maryland	1.4	1.4	1.5	1.0	1.3	1.8
D. C.	.3	.3	.1	.4	.4	.4
Virginia	2.0	1.9	1.4	3.3	1.6	1.5
West Virginia	1.2	1.3	.8	.9	.5	1.0
North Carolina	2.2	2.1	2.7	1.7	2.2	2.8
South Carolina	1.5	1.7	1.1	.5	.6	1.1
Florida	2.0	1.9	1.4	3.9	1.3	1.9
Georgia	2.1	2.1	2.5	1.9	1.0	2.1

* Less than .05%

NUMBER OF APPLICANTS						NUMBER OF PARTICIPANTS					
TOTAL	SI	AYI	ISI	Res.	Conf.	TOTAL	SI	AYI	ISI	Res.	Conf.
22.8	21.7	21.2	28.2	25.5	23.3	24.1	21.6	19.4	28.9	24.1	23.9
28.6	29.5	31.2	23.5	29.2	30.0	28.6	31.1	34.0	23.7	31.6	30.3
32.0	33.0	28.8	29.7	27.0	30.2	30.7	32.1	27.1	29.2	26.1	29.7
16.5	15.8	18.7	18.6	18.2	16.5	16.5	15.2	19.5	18.3	18.2	16.1
6.4	6.3	7.0	7.0	5.7	6.2	6.2	5.9	5.1	7.0	4.8	6.4
.6	.7	.7	.3	.2	.4	.5	.6	.4	.3	*	.5
.5	.5	.6	.4	.4	.3	.4	.5	.5	.4	.4	.4
.5	.5	.6	.3	.5	1.0	.4	.4	.5	.3	.4	.9
2.8	2.8	3.2	3.0	2.5	3.2	2.7	2.6	2.1	3.0	2.4	3.2
.5	.5	.6	.7	.6	.4	.4	.3	.4	.7	.7	.5
1.5	1.4	1.2	2.3	1.5	.9	1.7	1.4	1.2	2.3	1.0	.9
16.4	15.4	14.3	21.3	19.8	17.1	17.9	15.7	14.3	21.9	19.2	17.6
8.1	7.5	7.6	10.1	13.4	7.7	8.7	7.7	6.5	10.5	12.7	8.0
2.8	2.7	1.6	4.3	2.1	2.7	3.2	2.6	1.8	4.4	1.4	2.8
5.5	5.3	5.1	6.8	4.3	6.6	6.0	5.4	6.0	7.0	5.1	6.7
17.4	17.9	16.4	15.8	16.7	19.7	18.1	19.3	18.7	16.0	18.4	19.9
4.1	4.3	3.1	3.5	3.2	7.4	4.3	4.7	4.1	3.6	3.4	7.5
2.5	2.5	1.9	2.6	2.1	2.4	2.5	2.5	2.5	2.6	2.5	2.5
4.2	4.3	3.3	4.2	4.5	3.8	4.6	5.0	3.1	4.2	5.0	3.7
3.9	4.0	5.2	3.2	2.4	3.3	4.0	4.3	5.5	3.3	2.5	3.4
2.7	2.7	2.9	2.2	4.5	2.8	2.7	2.8	3.5	2.3	5.1	2.8
11.2	11.6	14.8	7.7	12.6	10.3	10.5	11.8	15.3	7.7	13.2	10.4
2.5	2.8	3.2	.9	2.9	2.1	2.2	2.8	4.1	.9	3.3	2.1
2.1	2.1	3.2	1.5	3.6	1.2	2.2	2.4	3.0	1.6	3.8	1.3
2.1	2.1	2.2	1.9	1.8	2.2	2.2	2.4	1.8	1.9	2.0	2.1
.8	.9	.8	.7	.8	.7	.7	.7	1.0	.7	1.2	.7
.7	.8	.9	.2	.2	1.0	.4	.5	.9	.2	.1	.9
1.0	1.0	1.7	.5	1.2	.9	.9	1.0	1.3	.5	.7	.9
1.9	1.8	2.9	2.0	2.1	2.4	2.0	1.9	3.1	1.9	2.2	2.2
14.3	14.7	12.0	13.7	10.6	12.7	13.6	13.9	11.3	13.4	12.0	12.5
.3	.3	*	.2	1.5	.4	.2	.2	*	.2	.7	.5
1.4	1.5	1.4	1.0	1.3	1.7	1.6	1.9	1.3	1.0	1.4	1.8
.3	.3	.1	.4	.5	.4	.3	.3	.2	.4	.1	.5
2.3	2.2	1.8	3.1	1.6	1.4	2.4	1.9	2.0	3.2	2.5	1.4
1.4	1.5	.9	1.0	.5	1.0	1.0	1.1	.5	.9	.7	.9
2.5	2.6	3.6	1.7	2.3	2.8	2.3	2.6	2.4	1.6	3.0	2.6
1.7	2.0	.9	.5	.5	1.1	1.1	1.4	1.0	.5	.9	1.1
2.5	2.3	1.6	3.8	1.4	1.7	3.1	2.8	2.0	3.8	1.7	1.8
1.9	1.9	1.8	1.9	1.1	2.1	1.7	1.6	1.9	1.8	1.0	2.0

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Table 16 (Cont.)

Region of Residence	NUMBER OF APPLICATIONS					
	TOTAL	SI	AYI	ISI	Res.	Conf.
East South Central	6.0	6.0	7.0	5.8	5.2	7.6
Kentucky	1.0	1.0	.6	.8	1.0	2.3
Tennessee	1.8	1.8	1.3	1.9	1.4	2.8
Alabama	2.0	1.9	2.9	2.0	1.8	1.0
Mississippi	1.3	1.2	2.2	1.1	1.1	1.5
West South Central	10.3	10.5	8.3	9.8	11.0	10.3
Oklahoma	1.7	1.7	1.7	1.9	2.2	1.4
Arkansas	1.4	1.4	1.0	1.5	1.0	.7
Louisiana	1.9	1.9	1.7	3.1	1.7	2.2
Texas	5.3	5.6	3.9	3.2	6.2	6.0
Mountain	6.0	5.9	8.8	5.1	6.8	5.0
Montana	.5	.5	1.3	*	.3	.8
Idaho	.5	.4	.9	1.1	.5	.5
Wyoming	.3	.3	.6	.3	.1	.1
Colorado	1.3	1.2	2.8	1.2	1.1	.8
New Mexico	1.0	1.1	1.3	.2	.9	1.1
Arizona	1.2	1.2	.6	1.5	2.9	.5
Utah	.9	.9	1.2	.4	.9	1.2
Nevada	.3	.3	.1	.3	.1	.1
Pacific	10.8	10.5	11.4	13.6	11.1	11.3
Washington	1.8	1.9	1.8	1.8	.6	2.0
Oregon	1.7	1.7	1.9	2.3	.7	1.0
California	6.8	6.6	7.3	8.8	9.3	8.3
Alaska	.1	.1	.1	*	.1	*
Hawaii	.3	.3	.3	.6	.5	*
Cities						
New York	2.2	2.3	.9	2.6	1.0	.6
Chicago	.4	.4	.7	.4	.6	.2
Los Angeles	.4	.3	.4	.5	.3	.8
Philadelphia	.6	.6	.4	.6	.8	.5
Detroit	.6	.6	.3	.6	.7	.5
Huston	.3	.3	.3	.5	.3	.2
Baltimore	.5	.5	.3	.4	.3	.6
Cleveland	.2	.2	.2	.2	.4	.5
Washington	.2	.2	.2	.2	.4	.3
St. Louis	.2	.2	.3	.1	.1	.4
Milwaukee	.3	.3	.2	.2	.5	.6
San Francisco	.2	.2	.2	.2	.4	*
Boston	.2	.2	.1	.1	*	*
Dallas	.2	.2	.2	.2	.1	.3
New Orleans	.2	.2	.3	.1	.5	.3
Pittsburgh	.3	.3	.4	.3	.2	.3
San Antonio	.1	.1	.2	.1	.4	.1
Seattle	.2	.2	.2	.1	*	.1
San Diego	.1	.1	.1	.1	.3	*
Buffalo	.2	.1	.1	.1	.3	.2
TOTAL	7.4	7.6	6.1	7.5	7.8	6.3

NUMBER OF APPLICANTS						NUMBER OF PARTICIPANTS					
TOTAL	SI	AYI	ISI	Res.	Conf.	TOTAL	SI	AYI	ISI	Res.	Conf.
7.3	7.5	7.4	6.2	5.2	7.5	6.4	6.7	6.5	6.1	4.3	7.3
1.2	1.3	.6	.9	.9	2.3	1.1	1.2	.6	.8	.9	2.2
2.2	2.3	1.4	2.1	1.4	2.8	1.8	1.7	1.3	2.1	1.6	2.7
2.4	2.4	3.6	2.2	1.8	1.0	2.2	2.3	2.6	2.1	.7	.9
1.4	1.5	1.8	1.1	1.2	1.4	1.4	1.5	2.0	1.1	1.2	1.4
10.4	10.7	9.4	9.8	11.2	10.0	10.7	11.5	9.3	9.7	9.8	9.9
1.8	1.8	1.9	2.0	2.1	1.3	2.1	2.1	2.6	2.0	2.4	1.3
1.3	1.2	1.3	1.5	1.1	.7	1.3	1.3	1.2	1.5	.7	.7
2.4	2.3	1.7	3.1	1.6	2.1	2.7	2.7	1.7	3.1	1.7	2.0
5.0	5.5	4.4	3.2	6.5	6.0	4.5	5.4	3.8	3.1	5.1	5.9
6.0	5.9	8.3	5.2	7.1	5.0	5.5	5.7	7.6	5.0	6.1	4.7
.5	.6	1.0	*	.3	.8	.4	.6	.8	*	.5	.8
.7	.7	.8	1.2	.5	.5	.8	.6	.8	1.1	.8	.6
.4	.4	.7	.3	.1	.1	.3	.4	.5	.2	*	.1
1.3	1.2	2.8	1.2	1.1	.8	1.2	1.2	2.2	1.2	1.3	.7
.9	1.1	1.1	.2	.9	1.1	.7	.9	1.5	.2	.7	.9
1.1	.9	.6	1.5	3.2	.5	1.2	1.0	.7	1.4	1.8	.5
.7	.7	1.3	.4	1.0	1.1	.6	.7	1.0	.4	1.0	.9
.3	.4	.1	.3	.1	.1	.3	.4	.1	.3	*	.1
10.5	9.9	10.4	13.4	11.1	11.5	11.1	9.5	11.9	13.3	12.0	11.4
1.7	1.8	1.8	1.8	.6	2.0	1.8	1.9	1.4	1.8	.4	1.8
1.6	1.5	1.9	2.2	.6	1.0	1.8	1.5	2.3	2.2	.9	.9
6.4	5.9	6.0	8.6	9.3	8.6	6.8	5.5	7.1	8.6	10.1	8.7
.1	.1	.3	*	.1	*	.1	.1	.2	*	*	*
.6	.6	.3	.7	.5	*	.5	.4	.9	.7	.7	*
1.9	1.9	.9	2.6	1.1	.5	2.1	1.9	1.3	2.6	.7	.5
.4	.4	.7	.4	.5	.2	.4	.4	.9	.4	.7	.2
.4	.4	.4	.5	.3	.7	.4	.3	1.0	.5	.1	.7
.6	.6	.5	.6	.8	.4	.6	.5	1.5	.6	1.0	.5
.5	.5	.4	.6	.8	.5	.6	.6	1.4	.6	.9	.6
.4	.3	.4	.5	.4	.2	.4	.3	8.8	.4	*	.2
.4	.4	.3	.4	.4	.6	.5	.5	1.0	.4	.4	.7
.2	.2	.3	.2	.4	.4	.2	.2	.6	.2	.5	.5
.2	.2	.2	.2	.5	.3	.2	.2	.8	.2	.1	.4
.2	.2	.3	.1	.1	.3	.2	.2	.5	.1	.1	.4
.2	.2	.3	.2	.5	.6	.3	.3	.6	.2	.4	.7
.2	.2	.3	.2	.5	*	.2	.2	.3	.2	.5	*
.1	.2	.2	.1	*	*	.2	.2	.4	.1	*	*
.2	.2	.2	.2	.1	.3	.2	.2	.4	.2	.1	.4
.2	.2	.3	.1	.5	.3	.2	.2	.5	.1	.7	.4
.3	.3	.4	.2	.2	.3	.3	.3	.6	.2	.3	.4
.1	.1	.3	.1	.4	.1	.1	.1	.2	.1	.4	.1
.1	.1	.3	.1	*	.1	.1	.2	.3	.1	*	.1
.1	.1	.1	.1	.4	*	.1	.1	.2	.1	.4	*
.1	.1	.2	.1	.4	.2	.1	.2	.2	.1	.5	.2
7.1	7.0	6.9	7.6	8.1	6.5	7.3	7.1	13.6	7.5	7.8	6.8

Foldout 5 (Cont. on next page)

Distribution of Participants by State of Employment and State of Institute Participation (States Grouped by Census Division)

Table 18

State of Employment	State of Institute Participation																			
	11	12	13	14	15	16	21	22	23	31	32	33	34	35	41	42	43	44	45	46	47
11 Maine	84	13	10	15	1	5	21	7	4	4	2	4	4	1	1	1					
12 New Hampshire	10	91	5	14	1	5	15	1	3	5	3	1	2	1	1		1	1			
13 Vermont	9	22	71	9	1	3	15	4	6	1	1	1	1		1	1					
14 Massachusetts	32	26	10	701	40	22	63	18	14	12	21	36	10	5	3	3	4				
15 Rhode Island	2	5	2	26	101	4	4	3	2	1	2	1	1	1	1						
16 Connecticut	8	6	6	39	21	392	47	21	10	9	19	6	13	2	1	1					
21 New York	43	10	13	54	31	36	2482	171	91	50	64	21	46	22	15	1	10	2	2		
22 New Jersey	20	5	5	21	9	11	164	686	99	26	18	26	8	4	9	2	4	1			
23 Pennsylvania	17	13	2	38	12	13	121	81	1473	94	52	41	22	10	12	8	8	1	1	1	2
31 Ohio	8	5	1	20	9	6	23	14	26	1096	75	42	40	10	14	8	12	4	2	2	5
32 Indiana	5	4	1	3	3	5	9	4	7	51	599	49	26	12	11	2	14	1	2	1	2
33 Illinois	6	13	6	15	11	6	36	13	19	71	152	844	43	49	38	36	89	4	8	3	9
34 Michigan	8	4	4	14	6	5	33	9	28	74	65	47	891	26	32	14	6	5	2	3	6
35 Wisconsin	5	6	2	11	2	4	17	7	7	36	64	82	55	408	74	29	12	11	14	9	6
41 Minnesta	4	3	4	7	2	2	13	9	11	26	26	22	21	17	308	27	9	92	75	6	4
42 Iowa	1	2	1	6	1	4	12	1	7	23	28	46	24	14	26	301	57	17	88	5	28
43 Missouri	1	1	1	6	1	1	21	5	4	18	26	24	11	12	11	18	389	2	2	4	106
44 North Dakota				1			2			6	2	3	6	2	8	3	2	195	7	3	4
45 South Dakota						1	2		1	2	4	4	5	3	6	2	3	6	97	5	2
46 Nebraska				1		1	4	2	3	9	9	12	5	9	6	8	17	2	26	108	27
47 Kansas				5	1	2	6	2	5	15	13	11	6	6	4	4	16	1	8	3	485
51 Delaware				1			4	4	7	3	2	1	1	1	1						
52 Maryland	4	2	2	16	1	9	28	24	19	16	15	13	6	5	4	1	3			1	
53 D. C.	1			2		1	3	2	5	4	2	5		2							
54 Virginia	8	2	1	4	1	2	7	4	15	9	13	5	3	2	5	1	1			2	2
55 West Virginia	2			3			4	2	7	25	6	5	1	1			1				
56 North Carolina	3			5		1	14	6	11	13	11	9	5	2		1					
57 South Carolina				1		1	8	4	9	3	2	1	2	2	3	1	2				
58 Georgia				2		1	4	3	2	4	4	8	1		1	1	1				
59 Florida	6			5	1	3	12	8	17	20	13	8	8		4	4	6				
61 Kentucky	1			6		2	7	2	3	26	17	5	5	2	5	1	6			1	1
62 Tennessee	1			2		2	8	3	5	7	4	6	3	3	3	3	5			1	1
63 Alabama	4	1	2	7		3	7	5	8	21	12	9	12	5	3	7	4	3	2	5	7
64 Mississippi	2			4		1	6	4	4	17	8	8	5	3	5	3	3			1	2
71 Arkansas	1			1			3	2	2	5	4	6	3	2	6	3	8			2	3
72 Louisiana	3	1	2	4		2	11	4	7	9	18	5	9	4	13	3	9		2		7
73 Oklahoma	1			1			3	1	3	4	4	6	4	2	1	3	7	1	1	3	30
74 Texas	2		1	7		4	15	12	11	10	26	13	9	2	12	8	11	2	8	2	24
81 Montana							2		2	2	1	3	1	2	4	2	2	3	2	1	1
82 Idaho				1			2	1	1	4	4	3	4	3	5	3	5	7	4	2	2
83 Wyoming				1		1	1		1	2	2	2	4	2	2	2	1	3	5	3	4
84 Colorado	1	1		7	2	4	11	5	5	6	3	13	12	5	11	3	4	3	5	2	9
85 New Mexico				2			2	1	1	4	6	6	2	1	3	3	1	1	1	1	1
86 Arizona	2			2	1	2	7	4	3	6	6	10	6	2	5	5	4	1	1	1	6
87 Utah				1		1	3	2	3		3	2	6	4	2	4	5	2	2	2	4
88 Nevada							2		2	2	1	4	1	1			1				
91 Washington				3		1	16	5	7	15	8	8	6	3	5	6	6	3	5	2	5
92 Oregon	2		1	1			7	3	4	16	18	11	6	4	8	8	7	3	4	2	4
93 California	4	1	3	13	3	4	32	12	14	28	40	51	21	3	21	10	21	6	5	7	5
94 Alaska																					
95 Hawaii				1		1	2			1		3									
98 Puerto Rico							3	1		1		2									
TOTAL	311		156		262		3344		1998	1498		1389			714		777		381		804
	237		1109		574		1122			1912		1354		682	555		383		194